

Utah Weekly Pertussis Update

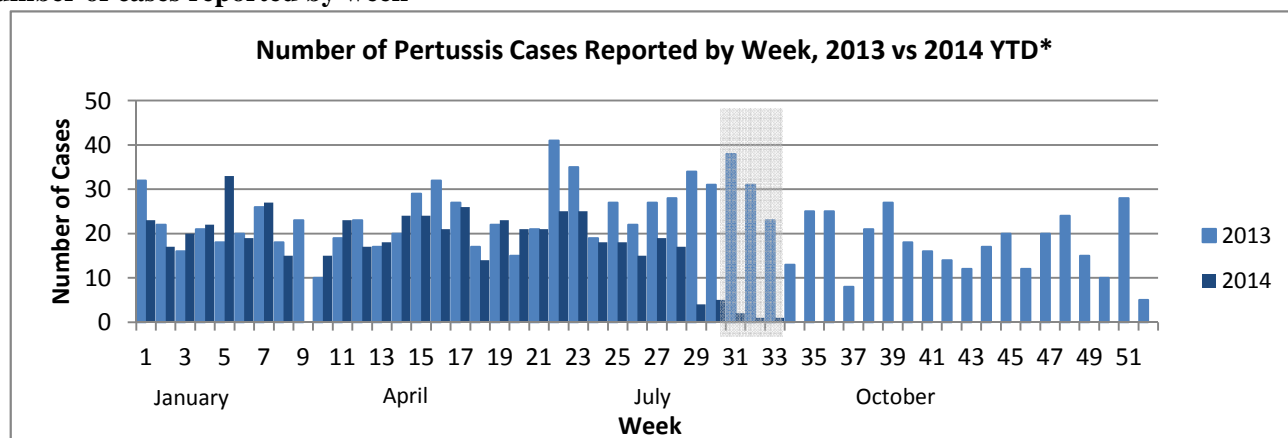
2014 data, through MMWR week ending August 16, 2014 (MMWR week 33)

Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2014 year-to-date (YTD)	597	Utah Incidence rate, 2014 year-to-date (YTD) per 100,000 person-years	33.5
Total number of cases reported 2013	1,331	Utah Incidence rate, 2013 per 100,000 person-years	47.2
Number of cases reported in past week	49	National Incidence rate, 2013 per 100,000 person-years (As of 7/03/2014) *Provisional	7.3
Total number of cases reported, through same time period 2013	804	2014 Hospitalizations	24
Age groups with the highest rates	< 1 year	2014 Cases in infants <1 year	53
	5-14 year		

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2014 Year-to-Date Incidence Rates, By Age

Age (years)	2014 Cases	2010 population	Rate*
<1	53	51,883	163.5
1-4	62	213,904	46.4
5-14	221	494,285	71.6
15-24	114	463,992	39.3
25-34	23	452,752	8.1
35-44	51	348,250	23.4
45-54	40	310,389	20.6
55-64	22	257,365	13.7
65+	11	262,660	6.7
Total	597	2,855,480	33.5

* Rate is calculated per 100,000 person years

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

School Age Incidence Rates, 2014 Year-to-Date

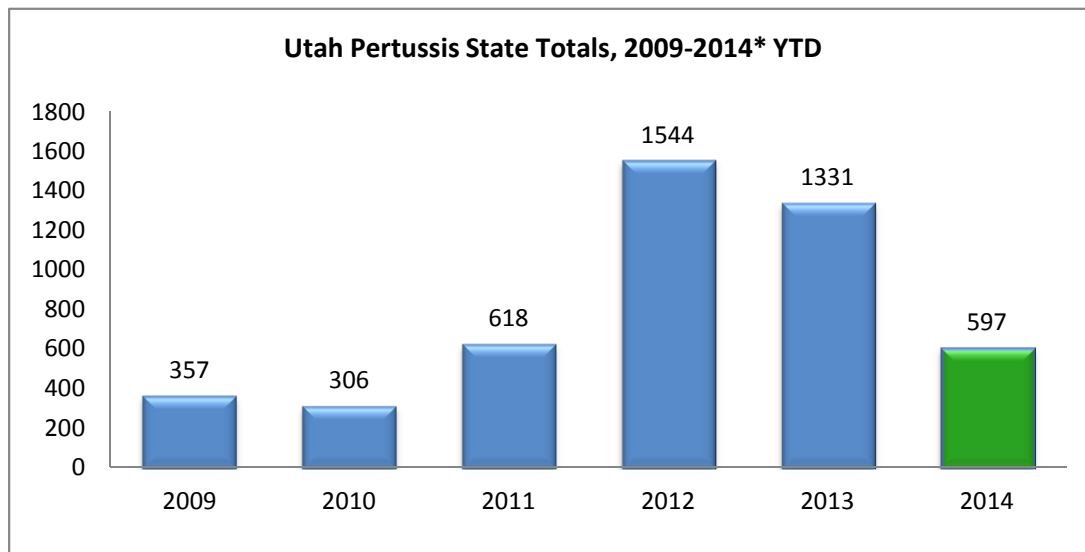
Grade	Age (years)	2014 Cases	2010 Population	Rate*
Preschool	3-4	215	107,474	320.3
Kindergarten	5	8	52,626	24.3
1	6	14	52,405	42.8
2	7	18	51,490	56.0
3	8	14	51,263	43.7
4	9	30	49,029	98.0
5	10	26	49,235	84.5
6	11	30	49,264	97.5
7	12	20	47,284	67.7
8	13	23	46,176	79.7
9	14	38	45,513	133.7
10	15	38	44,006	138.2
11	16	25	44,507	89.9
12	17	16	43,772	58.5

* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

Utah Case Counts of Pertussis, 2008-2013



Pertussis tends to be cyclical, and reports have been increasing in Utah since 2009.

* 2014 data includes pertussis cases reported year to date. 2009-2013 data reflects cases reported during the entire calendar year for each year.

Incidence of pertussis by Local Health Department, 2014 YTD

Local Health Department	2014 Cases	Rate*
Bear River	41	39.1
Central Utah	29	61.2
Davis County	82	41.6
Salt Lake Valley	167	25.1
Southeastern Utah	0	0.0
Southwest Utah	4	3.0
Summit County	4	16.9
Tooele County	1	2.7
TriCounty	2	5.8
Utah County	140	41.5
Wasatch County	0	0.0
Weber-Morgan	106	68.9

* Rate is calculated per 100,000 person-years using 2010 Utah population estimates

